CERTIFICATE OF ANALYSIS

DRAXIMAGE MAA MACROSALB (10 vials/kit)

2.5 mg of Stannous Albumin Macro Aggregate / vial

# Certificate:	**2022MR07-1**		
Batch Number:	**1K139**	**Manufacturing Date:**	**2022JA17**
Lot Number (FP):	**1K139A**	**Expiry Date:**	**01/2024**
Product Number:	30000001020	**Specification Number and Version:**	30000001020_v01
Standard of Testing:	House, USP[1]	**Date of Release: (Date with QA Initials)**	2022MR07 MNB

Tests on the Lyophilized product			
Test Description	**Analytical Method**	**Specifications**	**Results**
Description	10019	A white freeze-dried plug or powder, clean and free of foreign matter. The flip-off cap is blue.	Conforms
Resuspendability	10079	A white suspension which may separate on standing.	Conforms
pH	10005	5.2 – 6.0	5.5
Loss on Drying	10021	≤ 5%	2%
Particle Density	10088	3 - 8 x 10^6 aggregated albumin particles in each vial	5x10E6 part./vial
Particle Size	10080	Particle Size < 10 µm: ≤ 10%	8%
		Particle Size ≥ 10 µm - ≤ 70 µm: ≥ 90%	92%
		Particle Size > 100 µm: ≤ 0.2%	< 0.1%
		Particle Size > 150 µm: none	None
MAA Identification	10000	A blue color develops.	Conforms
$SnCl_2.2H_2O$ Assay	10039	≥ 0.06 mg/vial	0.11 mg/vial
Total Tin Assay	10040	≤ 0.12 mg	0.09 mg/vial
Stannous Albumin Macro Aggregated Complex	10082	2.2 – 3.0 mg/vial	2.5 mg/vial
Human Serum Albumin	10068	3.5 – 6.5 mg/vial (or alternative method 10089)	5.4 mg/vial
Sodium Chloride	10084	0.96 – 1.44 mg/vial	1.34 mg/vial
Residual Solvents[1]	USP<467>	Meets USP requirements (No test required)	Conforms
Sterility[1,2]	10007	Sterile	Conforms
Bacterial Endotoxins	10008	≤ 16.5 EU/vial	8.2 EU/vial (*)

[2] Outside testing

(*) PR 141021 MT 2022 MR07.

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Our Values

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Tests on the Reconstituted product			
Test Description	**Analytical Method**	**Specifications**	**Results**
Radiochemical Purity	10043	Not less than 90% of the total radioactivity is found as aggregated albumin at the point of application, at 15 – 30 minutes post labeling.	100%
		Not less than 90% of the total radioactivity is found as aggregated albumin at the point of application, at least 12 hours post labeling.	100%
Centrifugation Procedure	10087	Not more than 10% of the total radioactivity is found in the supernatant liquid, at 15 – 30 minutes post labeling.	3%
		Not more than 10% of the total radioactivity is found in the supernatant liquid, at least 12 hours post labeling.	2%
Biological Distribution	10044	In not less than 2 of 3 animals, at 15 – 30 minutes post labeling, not less than 80% of the radioactivity is found in the lungs of the animal at 15 minutes post injection.	1: 89% 2: 98% 3: 98%
		In not less than 2 of 3 animals, at 15 – 30 minutes post labeling, not more than a total of 5% of the radioactivity is found in the liver of the animal at 15 minutes post injection.	1: 1% 2: 1% 3: 1%
		In not less than 2 of 3 animals, at 15 – 30 minutes post labeling, not more than 5% of the radioactivity is found in the kidneys of the animal at 15 minutes post injection.	1: 1% 2: 1% 3: 1%
		In not less than 2 of 3 animals, at 12 -24 hours post labeling, not less than 80% of the radioactivity is found in the lungs of the animal at 15 minutes post injection.	1: 99% 2: 93% 3: 98%
		In not less than 2 of 3 animals, at 12 - 24 hours post labeling, not more than a total of 5% of the radioactivity is found in the liver of the animal at 15 minutes post injection.	1: 1% 2: 1% 3: 1%
		In not less than 2 of 3 animals, at 12 – 24 hours post labeling, not more than 5% of the radioactivity is found in the kidneys of the animal at 15 minutes post injection.	1: 1% 2: 1% 3: 1%

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MT 2022MR07

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This batch of product has been tested by Jubilant DraxImage Quality Control Laboratory under Canadian Establishment License Number **101869-A** and complies with the specification requirements.

MUSTAPHA TOLCARI
QC Sr. Supervisor — M. Tolcari — 2022 MR07

Verified by: Name and Title | Signature | Date

NATHALIE BRUNET
QA, ASSOCIATE — Nathalie Brunet — 2022MR07

Approved by: Name and Title | Signature | Date

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